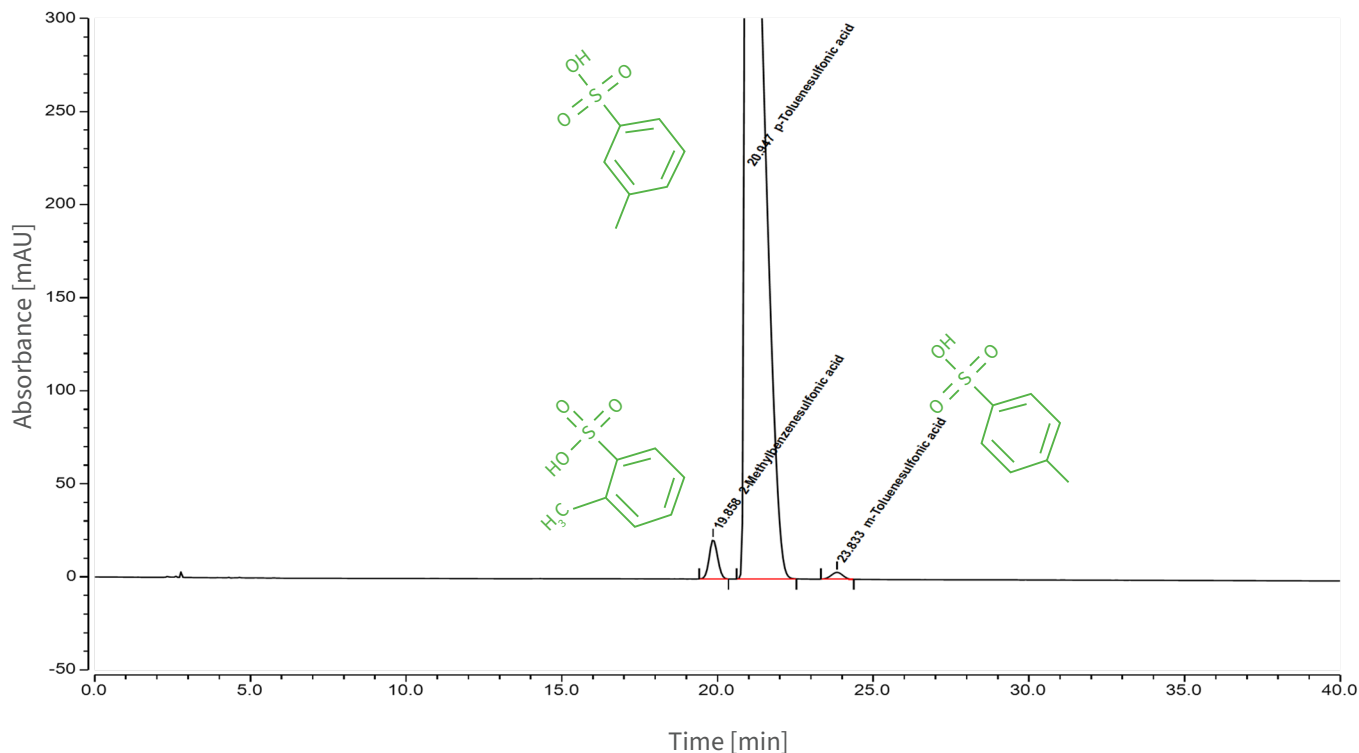




p-Toluenesulfonic Acid

On Endurus[®] C18 EPS 5 μ m 250X4.6



Test Condition (As Inhouse)

Column:

Endurus[®] C18 EPS 250x4.6 mm, 5 μ m

Injection: 10 μ L

Detection: UV 222 nm

Flow Rate: 1.5 mL/min

Mobile Phase: Buffer: Acetonitrile (95:5)

Buffer: 6.805 g Potassium dihydrogen phosphate in 1000 ml Water and adjust pH 2.9 with phosphoric acid.

Diluent: Mobile Phase

Temperature: Ambient

Autosampler temperature: 5 $^{\circ}$ C

Sample preparation:

Dissolve 1mg/1ml in diluent.

p-Toluene sulfonic acid, also known as tosylic acid, is widely used in the pharmaceutical industry as a counterion for basic drugs. Its strong acidic and hydrophilic properties make it ideal for enhancing drug solubility and stability. Additionally, it finds applications in organic synthesis and various other industries due to its versatility and compatibility with different chemical processes.

Chromatographic data

Compound	Retention Time (min)	Resolution	Tailing Factor	Theoretical Plates
2-Methylbenzenesulfonic acid	19.858	n.a.	1.08	772667
p-Toluenesulfonic acid	20.947	1.41	4.0	296099
m-Toluenesulfonic acid	23.833	3.29	1.0	110487